



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.13/RS/CSR-3/797d/CEMENT/2014-15

Date: 26.03.2015

TEST REPORT ON CEMENT

* CUSTOMER	: Asst. Executive Engineer, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
*AGENCY	: Mr. R. Shivaram, No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore - 560023.
*NAME OF THE WORK	: Improvements to drains and footpath 4 th cross and adjoining roads of Kalyananagara E/s, in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
*REFERENCE	: BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015
SAMPLE ID	: Cement - Sample 2
SAMPLE RECEIVED ON	: 24.03.2015
PERIOD OF TESTING	: 24.03.2015 to 26.03.2015



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH. I.A.
Chief Executive Officer



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Job No.: CTCE/BBMP/W.No.13/RS/CSR-3/797d/SAND-Gradation/2014-15

: 26.03.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

* **Agency** : Mr. R. Shivaram,
No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

* **Name of Work** : Improvements to drains and footpath 4th cross and adjoining roads of Kalyananagara E/s, in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - Sample 2

Sample Received on : 24.03.2015

Date of Testing : 26.03.2015



Total Wt. of Aggregates in gms : 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.80	90-100	90-100	90-100	95-100
2.36	73.30	60-95	75-100	85-100	95-100
1.18	48.10	30-70	55-90	75-100	90-100
600 Micron	23.10	15-34	35-59	60-79	80-100
300 Micron	11.10	5-20	8-30	12-40	15-50
150 Micron	3.10	0-10	0-10	0-10	0-15

Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



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Job No.: CTCE/BBMP/W.No.13/RS/CSR-3/797d/AGG/GR/2014-15

: 26.03.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

* **Agency** : Mr. R. Shivaram,
No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

* **Name of Work** : Improvements to drains and footpath 4th cross and adjoining roads of Kalyananagara E/s, in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - Sample 2

Sample Received on : 24.03.2015

Date of Testing : 26.03.2015



Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.50	95-100	85-100
20	36.50	30-70	0-20
10	11.50	10-35	0-5
4.75	1.50	0-5	-

Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



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Job No.: CTCE/BBMP/W.No.13/RS/CSR-3/797d/CC Solid Block/2014-15

: 28.03.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : **Asst. Executive Engineer**, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

* Agency : **Mr. R. Shivaram**,
No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

* Name of the Work : Improvements to drains and footpath 4th cross and adjoining roads of Kalyananagara E/s, in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

Sample Received on : 24.03.2015

Date of Testing : 28.03.2015

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.52	259.3	3.24	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	35.26	260.1	3.25	
3	Block 3	34.90	261.2	3.27	
4	Block 4	35.20	260.5	3.26	
5	Block 5	36.25	260.8	3.26	
6	Block 6	34.23	259.3	3.24	
7	Block 7	36.30	258.4	3.23	
8	Block 8	36.20	262.5	3.28	

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NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.13/RS/CSR-3/797d/CC Solid Block/2014-15

: 28.03.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : **Asst. Executive Engineer**, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

* Agency : **Mr. R. Shivaram**,
No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

* Name of the Work : Improvements to drains and footpath 4th cross and adjoining roads of Kalyanaganga E/s, in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

Sample Received on : 24.03.2015

Date of Testing : 28.03.2015

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.36	196.2	3.27	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	25.10	197.2	3.29	
3	Block 3	25.32	198.1	3.30	
4	Block 4	24.95	196.5	3.28	
5	Block 5	25.36	197.2	3.29	
6	Block 6	24.90	193.6	3.23	
7	Block 7	26.31	194.8	3.25	
8	Block 8	25.95	195.6	3.26	

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Job No.: CTCE/BBMP/W.No.13/RS/CSR-3/797d/Pre Cast Slab/2014-15

08.05.2015

TEST REPORT CONCRETE CORE (PRE CAST SLAB)

* Name of Customer : **Asst. Executive Engineer**, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

* Name of Agency : **Mr. R. Shivaram**,
No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

* Name of work : Improvements to drains and footpath 4th cross and adjoining roads of Kalyananagara E/s, in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

Technical Reference : IS:516-1959 (Reaffirmed 2008), SP-24:1983.

Sample ID : Pre cast slab

Sample Received on : 02.05.2015

Date of Testing : 08.05.2015



Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	80.00	0.394	2508.28	1.60	0.960	32.10	16.35	17.66	16.95	21.19
2	50.00	81.00	0.402	2527.62	1.62	0.965	32.60	16.60	17.93	17.30	21.63
3	50.00	82.00	0.409	2540.27	1.64	0.970	33.15	16.88	18.23	17.69	22.11

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Job No.: CTCE/BBMP/W.No.12/RS/CSR-3/797d/CUBE/2014-15

14.05.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
- * **Agency** : Mr. R. Shivaram,
No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.
- * **Name of the work** : Improvements to drains and footpath 4th cross and adjoining roads of Kalyananagara E/s, in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
- * **Reference** : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015
- * **Sample ID** : Cement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₁₅



Compressive Strength as on : 28th day

Sample Received on : 16.04.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.04.2015	14.05.2015	8.498	378.9	16.84
2	16.04.2015	14.05.2015	8.336	360.8	16.04
	16.04.2015	14.05.2015	8.205	345.5	15.36

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